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1 Query evaluation techniques for large databases
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 Distributed, Collaborative Data Analysis from Heterogeneous Sites Using a Scalable Evolutionary Technique
B. Park, H. Kargupta, E. Johnson, E. Sanseverino, D. Hershberger, L. Silvestre
November 2001 **Applied Intelligence**, Volume 16 Issue 1

Full text available: Publisher Site Additional Information: full citation, abstract, index terms

This paper documents an early effort to develop an experimental, collaborative data analysis technique for learning classifiers from a collection of heterogeneous datasets distributed over a network. The proposed technique makes use of a scalable evolutionary algorithm, called the GEMGA to classify datasets. This paper describes the developed technique and the results of the use of this technique through the application of this system for several domains, including distributed fault detection ...

Keywords: GEMGA, distributed data analysis, linkage learning, scalable genetic algorithms

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1 A Survey of Information Retrieval Vendors

Robert J. Kuhns
October 1996 Technical Report, Sun Microsystems, Inc.

Full text available: pdf(176.15 KB) Additional Information: full citation, abstract

This report is a survey of vendors that develop and market information retrieval technology. The objective of this survey is to provide information for those who want an overview of text retrieval and document management companies, their products, and their indexing and searching capabilities. More specifically, it presents summary information for each corporation surveyed regarding its business, markets, products, and technology. Although the conclusion contains a discussion of trends, commonal ...

2 EMP — A Database-Driven Electronic Market Place for Business-to-Business Commerce on the Internet

Susanne Boll, Andreas Grüner, Armin Haaf, Wolfgang Klas
April 1999 **Distributed and Parallel Databases**, Volume 7 Issue 2

Full text available: Publisher Site Additional Information: full citation, abstract, references, index terms

Electronic commerce systems for business-to-business commerce on the Internet are still in their infancy. The realization of Internet electronic markets for business-to-business following a n-suppliers: m-customers scenario is still unattainable with todays solutions. Comprehensive Internet electronic commerce systems should provide for easy access to and handling of the system, help to overcome differences in time of business, location, language between suppliers and customers, an ...

Keywords: Internet, JDBC, Java, WWW, electronic commerce, electronic market place, relational database management system, trading

3 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's

database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

4 File servers for network-based distributed systems
Liba Svobodova
December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4
Full text available: pdf(4.23 MB) Additional Information: full citation, references, citings, index terms, review

5 Data integration through database federation
L. M. Haas, E. T. Lin, M. A. Roth
October 2002 **IBM Systems Journal**, Volume 41 Issue 4
Additional Information: full citation, abstract, references, citings

In a large modern enterprise, it is almost inevitable that different parts of the organization will use different systems to produce, store, and search their critical data. Yet, it is only by combining the information from these various systems that the enterprise can realize the full value of the data they contain. Database federation is one approach to data integration in which middleware, consisting of a relational database management system, provides uniform access to a number of heteroge ...

6 Extending a persistent object framework to enhance enterprise application server performance
John Grundy, Steve Newby, Thomas Whitmore, Peter Grundeman
January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5**, Volume 24 Issue 2
Full text available: pdf(795.08 KB) Additional Information: full citation, abstract, references, citings, index terms

High-volume transaction processing speed is critical for adequate performance in many enterprise application servers. We describe our experiences using an object-oriented persistency framework to achieve greatly enhanced server response by the transparent use of main-memory database technology. We took an application server whose data persistency is abstracted via a persistent object framework and replaced a version of the framework using a relational database for persistency with one that uses ...

Keywords: main-memory databases, persistent object frameworks, transaction processing performance

7 Wide-area architecture and protocols: GlobeDB: autonomic data replication for web applications
Swaminathan Sivasubramanian, Gustavo Alonso, Guillaume Pierre, Maarten van Steen
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Full text available: pdf(263.97 KB) Additional Information: full citation, abstract, references, index terms

We present GlobeDB, a system for hosting Web applications that performs autonomic replication of application data. GlobeDB offers data-intensive Web applications the benefits of low access latencies and reduced update traffic. The major distinction in our system compared to existing edge computing infrastructures is that the process of distribution and replication of application data is handled by the system automatically with very little manual administration. We show that significant performan ...

Keywords: autonomic replication, data replication, edge services, rerformance

8 Special issue: AI in engineering
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

9 Per-user profile replication in mobile environments: algorithms, analysis, and simulation results
Narayanan Shivakumar, Jan Jannink, Jennifer Widom
October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2

Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings, index terms

We consider per-user profile replication as a mechanism for faster location lookup of mobile users in a personal communications service system. We present a minimum-cost maximum-flow based algorithm to compute the set of sites at which a user profile should be replicated given known calling and user mobility patterns. We show the costs and benefits of our replication algorithm against previous location lookup approaches through analysis. We also simulate our algorithm against other location ...

10 The Datacycle architecture
T. F. Bowen, G. Gopal, G. Herman, T. Hickey, K. C. Lee, W. H. Mansfield, J. Raitz, A. Weinrib
December 1992 **Communications of the ACM**, Volume 35 Issue 12

Full text available: pdf(3.91 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: VLSI filtering, concurrency control, data filtering, database architectures, database machines, fuzzy queries, high performance, transaction processing

11 A survey on metadata for describing and retrieving Internet resources
Ana Maria De Carvalho Moura, Maria Luiza Machado Campos, Cassia Maria Barreto
April 1998 **World Wide Web**, Volume 1 Issue 4

Full text available: Publisher Site Additional Information: full citation, abstract

Metadata, or "information that makes data useful," have been considered by the database community basically as data in dictionaries used to control database management systems operations. More recently, metadata have been used to describe digital resources available across networks. This paper presents a survey of the state of the art concerning the use and importance of metadata, focusing on different standards and models found in the literature, describing ...

12 Data base directions: the next steps
John L. Berg
November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available: pdf(9.95 MB) Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing,

evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

13 Implementing role based access control for federated information systems on the web
Kerry Taylor, James Murty
January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21**
Full text available: pdf(217.89 KB) Additional Information: full citation, abstract, references, index terms

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

Keywords: RBAC, federated databases

14 Early user---system interaction for database selection in massive domain-specific online environments
Jack G. Conrad, Joanne R. S. Claussen
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1
Full text available: pdf(845.54 KB) Additional Information: full citation, abstract, references, index terms

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

15 User profile replication for faster location lookup in mobile environments
Narayanan Shivakumar, Jennifer Widom
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**
Full text available: pdf(915.70 KB) Additional Information: full citation, references, citings, index terms

16 RFC1983: Internet Users' Glossary
August 1996 rfc, RFC Editor
Additional Information: full citation

There are many networking glossaries in existence. This glossary concentrates on terms which are specific to the Internet. Naturally, there are entries for some basic terms and acronyms because other entries refer to them.

17 Research sessions: consistency and availability: Relaxed currency and consistency: how to say "good enough" in SQL
Hongfei Guo, Per-Åke Larson, Raghu Ramakrishnan, Jonathan Goldstein

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available: pdf(606.81 KB) Additional Information: full citation, abstract, references, citings

Despite the widespread and growing use of asynchronous copies to improve scalability, performance and availability, this practice still lacks a firm semantic foundation. Applications are written with some understanding of which queries can use data that is not entirely current and which copies are "good enough"; however, there are neither explicit requirements nor guarantees. We propose to make this knowledge available to the DBMS through explicit currency and consistency (C&C) constraints in qu ...

18 Heuristics for Optimizing Multi-Clip Queries in Video Databases

Harald Kosch, Ahmed Mostefaoui, László Böszörményi, Lionel Brunie

March 2004 **Multimedia Tools and Applications**, Volume 22 Issue 3

Full text available: Publisher Site Additional Information: full citation, abstract, index terms

In this paper we address the multi-clip query optimization problem where a multi-clip query requests multiple video clips. We propose a new heuristics called Restricted Search Interval that maximizes clip sharing between queries and consequently reduces the network bandwidth of a video server for a multicast system. An adaptation of our heuristics for optimizing the response time of the query is also presented. The experimental results show that the suggested heuristics reduces the server wor ...

Keywords: multi-clip queries, piggypacking, video databases, video server

19 Development of an object-oriented DBMS

David Maier, Jacob Stein, Allen Otis, Alan Purdy

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms

We describe the results of developing the GemStone object-oriented database server, which supports a model of objects similar to that of Smalltalk-80. We begin with a summary of the goals and requirements for the system: an extensible data model that captures behavioral semantics, no artificial bounds on the number or size of database objects, database amenities (concurrency, transactions, recovery, associative access, authorization) and an interactive development environment. Object-orient ...

20 Information systems security design methods: implications for information systems development

Richard Baskerville

December 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 4

Full text available: pdf(3.44 MB) Additional Information: full citation, abstract, references, citings, index terms

The security of information systems is a serious issue because computer abuse is increasing. It is important, therefore, that systems analysts and designers develop expertise in methods for specifying information systems security. The characteristics found in three generations of general information system design methods provide a framework for comparing and understanding current security design methods. These methods include approaches that use checklists of controls, divide functional req ...

Keywords: checklists, control, integrity, risk analysis, safety, structured systems analysis and design, system modeling

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21 RFC1392: Internet Users' Glossary
G. Malkin, T. LaQuey Parker
January 1993 rfc, RFC Editor
Additional Information: full citation

There are many networking glossaries in existence. This glossary concentrates on terms which are specific to the Internet. Naturally, there are entries for some basic terms and acronyms because other entries refer to them.

22 RFC1195: Use of OSI IS-IS for routing in TCP/IP and dual environments
R. W. Callon
December 1990 rfc, RFC Editor
Additional Information: full citation

This RFC specifies an integrated routing protocol, based on the OSI Intra-Domain IS-IS Routing Protocol, which may be used as an interior gateway protocol (IGP) to support TCP/IP as well as OSI. This allows a single routing protocol to be used to support pure IP environments, pure OSI environments, and dual environments. This specification was developed by the IS-IS working group of the Internet Engineering Task Force.

23 Distributed, Collaborative Data Analysis from Heterogeneous Sites Using a Scalable Evolutionary Technique
B. Park, H. Kargupta, E. Johnson, E. Sanseverino, D. Hershberger, L. Silvestre
November 2001 **Applied Intelligence**, Volume 16 Issue 1
Full text available: Publisher Site Additional Information: full citation, abstract, index terms

This paper documents an early effort to develop an experimental, collaborative data analysis technique for learning classifiers from a collection of heterogeneous datasets distributed over a network. The proposed technique makes use of a scalable evolutionary algorithm, called the GEMGA to classify datasets. This paper describes the developed technique and the results of the use of this technique through the application of this system for several domains, including distributed fault detection ...

Keywords: GEMGA, distributed data analysis, linkage learning, scalable genetic algorithms

24 VIRTUS: a collaborative multi-user platform
Kurt Saar
February 1999 **Proceedings of the fourth symposium on Virtual reality modeling language**

Full text available: pdf(4.09 MB) Additional Information: full citation, references, citings, index terms

Keywords: VRML, VRML event model, architecture construction engineering (ACE), collaborative virtual environment (CVE), computer supported collaborative work (CSCW), dead reckoning, distributed environments, living worlds, multi-user technologies, virtual environments, virtual worlds

25 Experiences with selecting search engines using metasearch

Daniel Dreilinger, Adele E. Howe

July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Full text available: pdf(428.65 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Search engines are among the most useful and high-profile resources on the Internet. The problem of finding information on the Internet has been replaced with the problem of knowing where search engines are, what they are designed to retrieve, and how to use them. This article describes and evaluates SavvySearch, a metasearch engine designed to intelligently select and interface with multiple remote search engines. The primary metasearch issue examined is the importance of carefully selecti ...

Keywords: WWW, information retrieval, machine learning, search engine

26 Data driven character animation: Synthesizing animations of human manipulation tasks

Katsu Yamane, James J. Kuffner, Jessica K. Hodgins

August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3

Full text available: pdf(932.48 KB) mov(29:13 MIN) Additional Information: full citation, abstract, references, index terms

Even such simple tasks as placing a box on a shelf are difficult to animate, because the animator must carefully position the character to satisfy geometric and balance constraints while creating motion to perform the task with a natural-looking style. In this paper, we explore an approach for animating characters manipulating objects that combines the power of path planning with the domain knowledge inherent in data-driven, constraint-based inverse kinematics. A path planner is used to find a m ...

Keywords: human figure animation, motion capture, path planning, two-hand manipulation

27 ...Don't Let Them In: NOOSE - Networked Object-Oriented Security Examiner

Bruce Barnett

December 2000 **Proceedings of the 14th USENIX conference on System administration**

Additional Information: full citation, abstract, references

NOOSE (Networked Object-Oriented Security Examiner) is a distributed vulnerability analysis system based on object modeling. It merges the functionality of host-based and network-based scanners, storing the results into several object classes. The remote agents are implemented as dynamically extended PERL agents. NOOSE is able to collect vulnerabilities from a variety of sources, including outputs from other vulnerability analysis programs (e.g., Muffet's CRACK), collecting information from syst ...

28 Lab report special section: the University of Massachusetts Center for Intelligent Information Retrieval

W. Bruce Croft

March 1995 **ACM SIGIR Forum**, Volume 29 Issue 1

Full text available: pdf(684.53 KB) Additional Information: full citation, index terms

29 Personalized information delivery: an analysis of information filtering methods
Peter W. Foltz, Susan T. Dumais
December 1992 **Communications of the ACM**, Volume 35 Issue 12
Full text available: pdf(3.86 MB) Additional Information: full citation, references, citings, index terms

Keywords: indexing methods, information filtering, information retrieval, latent semantic indexing, retrieval models, user models, user profiling

30 Workflow Automation: Overview and Research Issues
Edward A. Stohr, J. Leon Zhao
September 2001 **Information Systems Frontiers**, Volume 3 Issue 3
Full text available: Publisher Site Additional Information: full citation, abstract, citings

Workflow management systems, a relatively recent technology, are designed to make work more efficient, integrate heterogeneous application systems, and support interorganizational processes in electronic commerce applications. In this paper, we introduce the field of workflow automation, the subject of this special issue of Information Systems Frontiers. In the first part of the paper, we provide basic definitions and frameworks to aid understanding of workflow management technologies. In the ...

Keywords: research issues, workflow management systems, workflow overview

31 Appication models: Client-system collaboration for legal corpus selection in an online production environment
Jack G. Conrad, Joanne R. S. Claussen
June 2003 **Proceedings of the 9th international conference on Artificial intelligence and law**
Full text available: pdf(239.10 KB) Additional Information: full citation, abstract, references

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: database selection, query categorization, user interaction

32 Succeedings of the second international software architecture workshop (ISAW-2)
Alexander L. Wolf
January 1997 **ACM SIGSOFT Software Engineering Notes**, Volume 22 Issue 1
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, citings, index terms

Interest in software architecture as an area of research, education, and practice within software engineering has been growing steadily over the past decade. Software architecture is concerned with the principled study of large-grained software components, including their properties, relationships, and patterns of combination. It is becoming clear that one key to the effective development, operation, and evolution of software systems is the design and evaluation of appropriate architectures.As a ...

33 Distinguished database profiles: Phil Bernstein speaks out on trends at industrial research labs: what metadata management products need, peculiarities of the tenure

sytem, how to fix the problems with database research conferences, and more
Marianne Winslett
September 2004 **ACM SIGMOD Record**, Volume 33 Issue 3

Full text available: pdf(199.64 KB) Additional Information: full citation, abstract

This interview with Phil Bernstein was videotaped at SIGMOD 2002 in Madison, Wisconsin, and revised slightly in July 2004 to bring it up to date.

34 Music In The Air: a theoretical model and software system for music analysis and composition
Robert Spalding Newcomb
April 1998 **Organised Sound**, Volume 3 Issue 1

Additional Information: full citation, abstract

As a composer in the very late twentieth century my goal is to inject as much intelligence and substance into the process of music-making as possible, to present listeners with sensory and intellectual metaphorical tools that enable them to perceive relationships of time and space in ways that might otherwise go unnoticed. Music-oriented researchers in the fields of psychoacoustics and cognition in recent years have viewed the computer as a means of simply extending and rationalising traditional ...

35 Software architecture of ubiquitous scientific computing environments for mobile platforms
Tzvetan T. Drashansky, Sanjiva Weerawarana, Anupam Joshi, Ranjeewa A. Weerasinghe, Elias N. Houstis
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Full text available: pdf(363.10 KB) Additional Information: full citation, abstract, references, index terms

Recent and anticipated technological advances in wireless computing will permit users to compute ubiquitously, "anywhere" and "any time". However, mobile platforms are unlikely to have the computational resources to solve even moderately complex problems that users routinely solve on static workstations today. In the SciencePad project our aim is to develop "Ubiquitous" Problem Solving Environments (UPSEs) to support mobile aware applications. The objecti ...

36 Brave new topics - session 2: from context to content: leveraging contextual metadata to infer multimedia content: From context to content: leveraging context to infer media metadata
Marc Davis, Simon King, Nathan Good, Risto Sarvas
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(373.07 KB) Additional Information: full citation, abstract, references, index terms

The recent popularity of mobile camera phones allows for new opportunities to gather important metadata at the point of capture. This paper describes a method for generating metadata for photos using spatial, temporal, and social context. We describe a system we implemented for inferring location information for pictures taken with camera phones and its performance evaluation. We propose that leveraging contextual metadata at the point of capture can address the problems of the semantic and s ...

Keywords: content-based image retrieval, context-to-content inference, contextual metadata, location-based services, mobile camera phones, wireless multimedia applications

37 Privacy online
Herman T. Tavani
December 1999 **ACM SIGCAS Computers and Society**, Volume 29 Issue 4

Full text available: pdf(1.06 MB) Additional Information: full citation, references, citings

38 Exploring data mining implementation
Karim K. Hirji
July 2001 **Communications of the ACM**, Volume 44 Issue 7
Full text available: pdf(101.20 KB) html(40.65 KB) Additional Information: full citation, references, citings, index terms, review

39 DBMS implementation experience: An entity-based database user interface
R. G. G. Cattell
May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data**
Full text available: pdf(815.00 KB) Additional Information: full citation, abstract, references, citings

A user interface to a database designed for casual, interactive use is presented. The interface is *entity-based:* the data display to the user is based upon entities (e.g., persons, documents, organizations) that participate in relationships, rather than upon relations alone as in the relational data model. Examples from an implementation of the system are shown, for a prototype personal database (PDB), developed in connection with the ZOG system at Carnegie-Mellon University (Robertson et ...

40 Practical Theory: Pan: A High-Level Configuration Language
November 2002 **Proceedings of the 16th USENIX conference on System administration**
Additional Information: full citation, abstract, references

The computational requirements for the new Large Hadron Collider are enormous: 5-8 PetaBytes of data generated annually with analysis requiring 10 more PetaBytes of disk storage and the equivalent of 200,000 of today's fastest PC processors. This will be a very large and complex computing system, with about two thirds of the computing capacity installed in "regional computing centres" across Europe, America, and Asia.Implemented as a global computational grid, the goal of integrating the large g ...

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Relevance scale

41 GIOSS: text-source discovery over the Internet
Luis Gravano, Héctor García-Molina, Anthony Tomasic
June 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 2

Full text available: pdf(230.37 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The dramatic growth of the Internet has created a new problem for users: location of the relevant sources of documents. This article presents a framework for (and experimentally analyzes a solution to) this problem, which we call the text-source discovery problem. Our approach consists of two phases. First, each text source exports its contents to a centralized service. Second, users present queries to the service, which returns an ordered list of promising text sources. T ...

Keywords: Internet search and retrieval, digital libraries, distributed information retrieval, text databases

42 The new crop of Java virtual machines (panel)
Lars Bak, John Duimovich, Jesse Fang, Scott Meyer, David Ungar
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 33 Issue 10

Full text available: pdf(399.37 KB) Additional Information: full citation, citings, index terms

43 Building ease of use into the IBM user experience
K. Vredenburg
October 2003 **IBM Systems Journal**, Volume 42 Issue 4

Additional Information: full citation, abstract, references, citings, index terms

This issue of the IBM Systems Journal explores the topic of building ease of use into the IBM user experience with hardware, software, Web sites, and services. This paper provides an overview of the process and organizational transformation that IBM has gone through in improving the user experience with our offerings. IBM's process for building ease of use into the user experience is described and two versions of the process are introduced and contrasted. The IBM User-Centered Design ...

44 IDEA: interactive data exploration and analysis
Peter G. Selfridge, Divesh Srivastava, Lynn O. Wilson
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international**

conference on Management of data, Volume 25 Issue 2

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms

The analysis of business data is often an ill-defined task characterized by large amounts of noisy data. Because of this, business data analysis must combine two kinds of intertwined tasks: *exploration* and *analysis*. Exploration is the process of finding the appropriate subset of data to analyze, and analysis is the process of measuring the data to provide the business answer. While there are many tools available both for exploration and for analysis, a single tool or set of tools m ...



45 Industrial/government track: Information awareness: a prospective technical assessment

David Jensen, Matthew Rattigan, Hannah Blau

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(987.48 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent proposals to apply data mining systems to problems in law enforcement, national security, and fraud detection have attracted both media attention and technical critiques of their expected accuracy and impact on privacy. Unfortunately, the majority of technical critiques have been based on simplistic assumptions about data, classifiers, inference procedures, and the overall architecture of such systems. We consider these critiques in detail, and we construct a simulation model that more cl ...

Keywords: TIA, collective classification, information awareness, iterative classification, privacy, ranking classifiers, relational data mining, social network analysis, technology assessment



46 Paper session 5: approximate and ranked query processing: Mining approximate functional dependencies and concept similarities to answer imprecise queries

Ullas Nambiar, Subbarao Kambhampati

June 2004 **Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004**

Full text available: pdf(195.43 KB) Additional Information: full citation, abstract, references

Current approaches for answering queries with imprecise constraints require users to provide distance metrics and importance measures for attributes of interest. In this paper we focus on providing a domain and end-user independent solution for supporting *imprecise queries* over Web databases without affecting the underlying database. We propose a query processing framework that integrates techniques from IR and database research to efficiently determine answers for imprecise queries. We m ...

Keywords: approximate functional dependencies, imprecise queries, tuple similarity

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